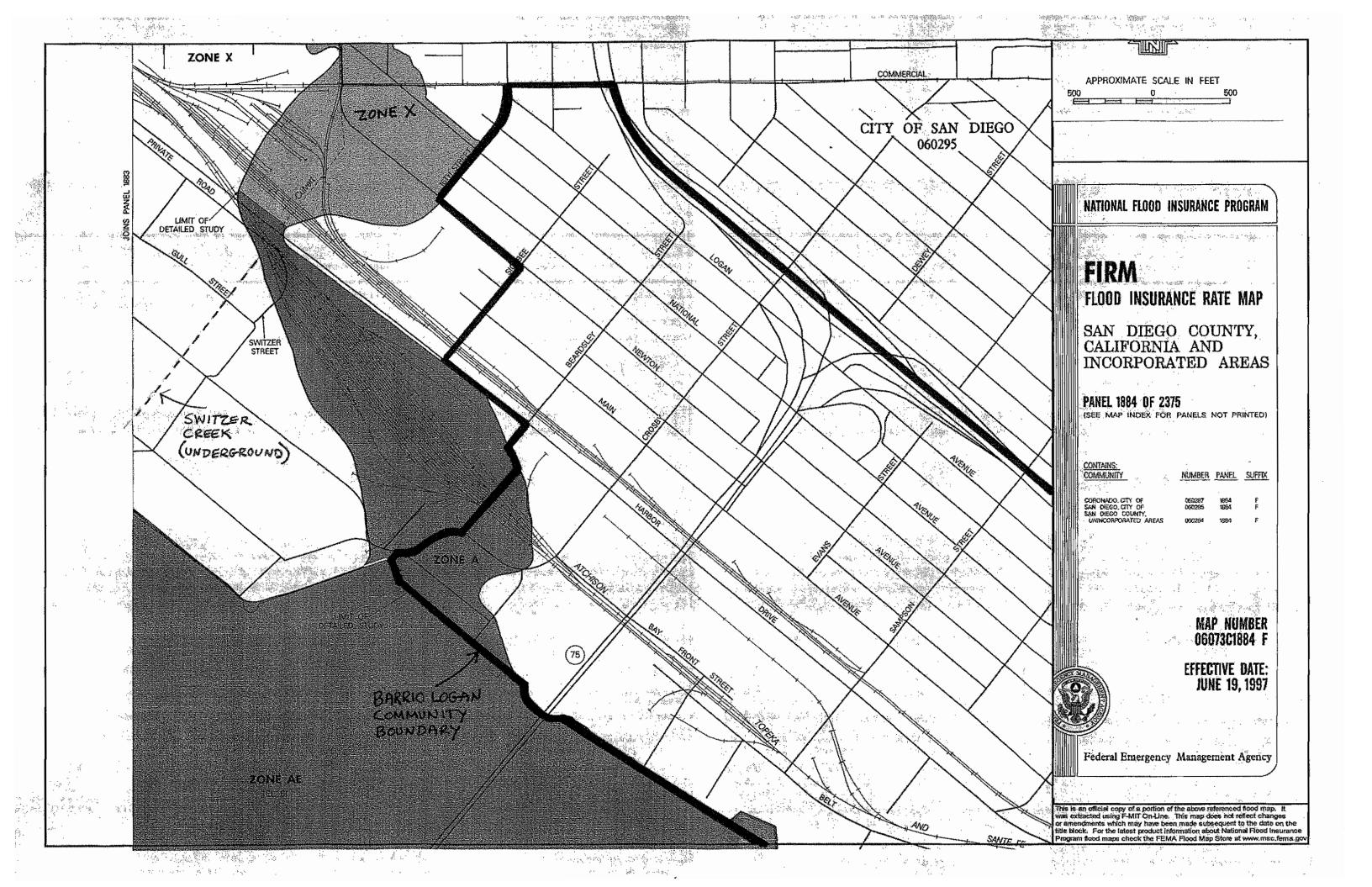
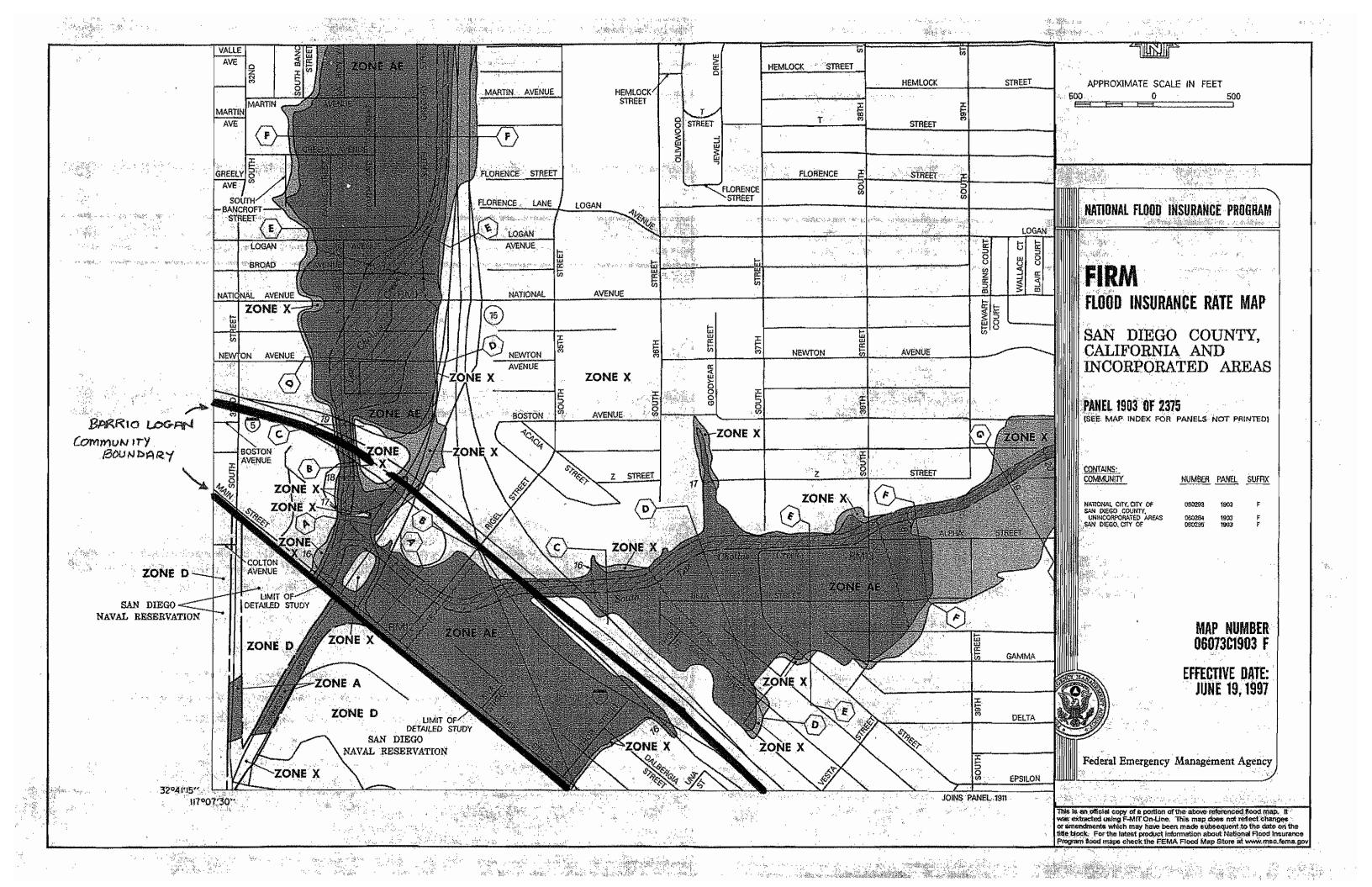
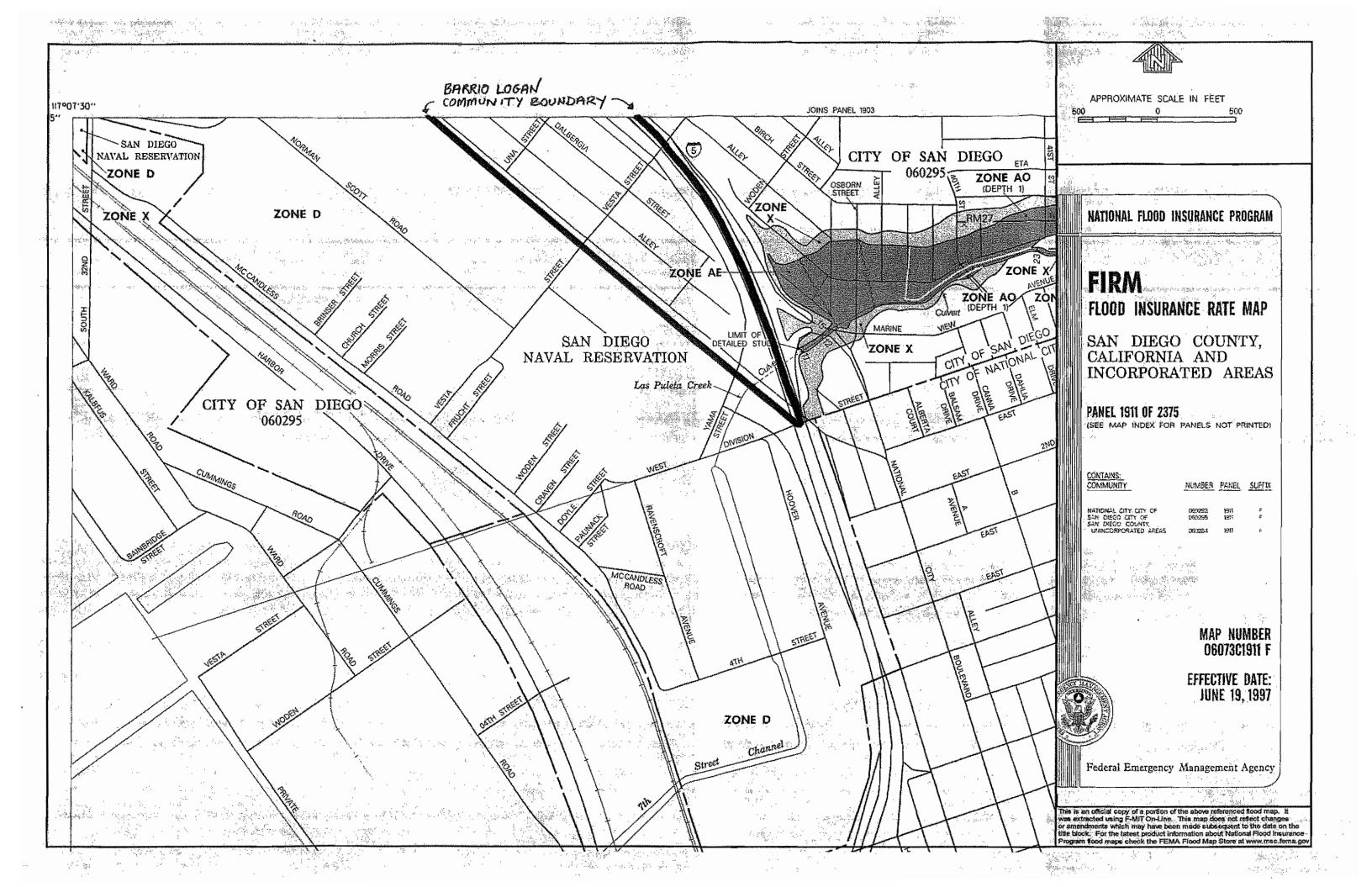
ATTACHMENT B

Annotated FIRMettes







ATTACHMENT C

Excerpts from 2006 Clean Water Act Section 303(d) List of Water Quality Limited Segments (303(d) List)

SAN DIEGO REGIONAL WATER QUALITY CONTROL BOARD

USEPA APPROVAL DATE: JUNE 28, 2007

SAN DIEGO REGIONAL WATER QUALITY CONTROL BOARD

REGION TYPE	WATERSHED	POLLUTANT/STRESSOR SOURCES	SIZE AFFECTED C	COMPLETION	
		Sulfates	5 Miles	2019	
		Source Unknown			
		Total Dissolved Solids	5 Miles	2019	
	,	Source Unka			
Reidy Canyon Creek	90462000	· · · · · · · · · · · · · · · · · · ·	- APPRILATION . LA LINEAGUE AND LA LINEAGUE AN	All the stands of the stands o	
		Phosphorus	3.9 Miles	2019	
		Source Unknown			
San Diego Bay	91010000	The state of the s	And	The same of the sa	
		PCBs (Polychlorinated biphenyls)	10783 Acres	2019	
and the second s		Source Unknown		a proper production	
San Diego Bay Shoreline, 32nd St San Diego Naval Station	90822000	,			
· ·		Benthic Community Effects	103 Aeres	2019	
		Nonpoint/Point Source			,
		Sediment Toxicity	103 Acres	2019	
San Diego Bay Shoreline, at Americas Cup	90810000	The second of th	Constitution		
Harbor		Conner	88 Acres	2019	
		Source Unknown			
San Diego Bay Shoreline, at Bayside Park	90911000	A CAMPACA	· · · · · · · · · · · · · · · · · · ·		
(J Street)		Indicator bacteria	50 Acres	2019	
		This listing was made by USEPA for 2006.			
		Source Unknown			
San Diego Bay Shoreline, at Coronado Cays	9101000	, γ ⁰ ₀ , μπης στο το τ	The first of the second of the	97.	
		Copper	47 Acres	2019	
		Source I'nknown			

SAN DIEGO REGIONAL WATER QUALITY CONTROL BOARD

ATE: JUNE 28, 2007	PROPOSED TMDL COMPLETION	2019		2019	Grand and the second se	5	2019		2019	The state of the s	2005	2006	2006	2019	2019	\$2° 2° 2° 2° 2° 2° 2° 2° 2° 2° 2° 2° 2° 2
USEPA APPROVAL DATE: JUNE 28, 2007	ESTIMATED SIZE AFFECTED	52 Acres	***Z ₂	73 Acres	** ***********************************		132 Acres	· · · · · · · · · · · · · · · · · · ·	24 Acres	The second secon	53 Acres	53 Acres	53 Acres	53 Acres	53 Acres	
	POTENTIAL SOURCES		Source Unknown		Source Unknown			Source Unknown		Source Unknown		Nonpoint/Point Source	Nonpoint/Point Source ydrocarbons)	Nonpoint/Point Source yls)	Nonpoint/Point Source	Nonpoint/Point Source
	POLLUTANT/STRESSOR	Соррег	Control of the control of the	Copper			Copper	** (*** *** *** *** *** *** *** *** **	Copper	**************************************	Copper	Mercury	Nonpoint/R PAHs (Polycyclic Aromatic Hydrocarbons)	N PCBs (Polychlorinated biphenyls)	Zinc	The Control of the Co
	REGION TYPE NAME WATERSHED	9 B San Diego Bay Shoreline, at Glorietta Bay 91010000	g R San Diego Ray Shareline, at Harbor Island 90821000	(East Basin)		9 B San Diego Bay Shoreline, at Harbor Island 90810000 (West Basin)		9 B San Diego Bay Shoreline, at Marriott 90821000		9 B San Diego Bay Shoreline, between Sampson 90822000						

SAN DIEGO REGIONAL WATER QUALITY CONTROL BOARD

USEPA APPROVAL DATE: JUNE 28, 2007

PROPOSED TMDL COMPLETION 2019 2019 20192006 2006 2006 2019 2019 20192019 SIZE AFFECTED 7.4 Acres 15 Acres 37 Acres 37 Acres 16 Acres 7.4 Acres 0.42 Miles 15 Acres 16 Acres 0.41 Miles ESTIMATED Includes Crosby Street/Cesar Chavez Park area, that will receive additional monitoring. Urban Runoff/Storm Sewers Unknown Nonpoint Source Unknown point source Nonpoint/Point Source POTENTIAL SOURCES Source Unknown Benthic Community Effects Benthic Community Effects Benthic Community Effects Benthic Community Effects POLLUTANT/STRESSOR Sediment Toxicity Indicator bacteria Sediment Toxicity Sediment Toxicity Sediment Toxicity Copper 1 014 CALWATER WATERSHED 90822000 90912000 90821000 90822000 90810000 90821000 San Diego Bay Shoreline, near Coronado Bridge San Diego Bay Shoreline, near sub base San Diego Bay Shoreline, G Street Pier San Diego Bay Shoreline, near Chollas Creek San Diego Bay Shoreline, Chula Vista Marina San Diego Bay Shoreline, Downtown Anchorage NAME REGION TYPE O 8 0

SAN DIEGO REGIONAL WATER QUALITY CONTROL BOARD

		•		USEPA APPROVAL DATE: JUNE 28, 2007	ATE: JUNE 28, 2007
REGION TYPE / NAME	CALWATER POLLUTAN	POLLUTANT/STRESSOR S	POTENTIAL SOURCES	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
9 B San Diego Bay Shoreline, near Switzer	90821000				
Via S	Chlordane			5.5 Acres	2019
		Urban	Urban Runoff/Storm Sewers		
		Other			
		Boatyards	rds		
		Nonpoi	Nonpoint/Point Source		
	Lindane/He	Lindane/Hexachlorocyclohexane (HCH)		5.5 Acres	2019
		Urban	Urban Runoff/Storm Sewers		
		Other			
		Boatyards	rds		
		Nonpoi	Nonpoint/Point Source		
	PAHs (Polyc	PAHs (Polycyclic Aromatic Hydrocarbons)	ms)	5.5 Acres	2019
		Urban	Urban Runoff/Storm Sewers		
		Other			
		Boatyards	rds		
		Nonpoi	93		
9 B San Diego Bay Shoreline, North of 24th Street Marine Terminal	90832000		the second of th	and the second of the second o	
	Benthic Con	Benthic Community Effects		9.5 Acres	2019
		Nonpoi	Nonpoint/Point Source		
	Sediment Toxicity	xicity		9.5 Acres	2019
			Point Source		The state of the s
9 B San Diego Bay Shoreline, Seventh Street Channel	90831000	Toring the state of the state o	AND THE STREET, AND THE STREET		To TO THE REAL PROPERTY AND A STATE OF THE PARTY AND A STATE OF THE PAR
	Benthic Con	Benthic Community Effects		9 Acres	2008
Outlot of Paleta Greek		Nonpoi	Nonpoint/Point Source		
Or Los Dilata Creek	Sediment Toxicity	xicity		9 Acres	2008
9 C San Diego Bay Shoreline, Shelter Island Shoreline Park	00810000		The second secon		and before the second that the second the second that the second t
	Indicator bacteria	cteria		0.42 Miles	2006
		Unknov	Unknown Noupoint Source		
	The second of th	Unknov	Unknown point source		and the second s

ATTACHMENT D

City of San Diego Council Policy 600-14 and Excerpts from Land Development

Code (Sections 143.0145 and 143.0146)

CITY OF SAN DIEGO, CALIFORNIA

CURRENT COUNCIL POLICY

SUBJECT:

DEVELOPMENT WITHIN AREAS OF SPECIAL FLOOD HAZARD

POLICY NO.:

600-14

EFFECTIVE DATE: December 12, 2000

BACKGROUND:

Development within areas of special flood hazard is unwise from a health, safety and general welfare standpoint. If property in a floodplain is elevated to avoid inundation the resulting effect is an increase in the water surface elevation in other areas of the floodplain. In the absence of FEMA regulations, the accumulated effect of development can increase the potential damage to other existing or proposed developments.

The National Flood Insurance Act of 1968 established the Federal Flood Insurance Program which provides subsidized flood insurance for all property owners providing that the local government institutes adequate land use and development control measures for preventing and reducing property damage from flooding. The City of San Diego, by Council Resolution, indicated its desire to qualify for the Federal Flood Insurance Program and, in 1973, adopted appropriate floodplain regulatory zoning consisting of the Floodway (FW) and Floodplain Fringe (FPF) zones.

PURPOSE & INTENT:

To promote the public health, safety and general welfare, and to minimize public and private losses due to flooding and flood conditions in specific areas by provisions designed to:

- Protect human life and health: a.
- Provide Environmental Protection consistent with related City requirements; Ъ.
- Minimize expenditure of public funds for flood control projects;
- Minimize the need for rescue and relief efforts associated with flooding; d.
- Minimize prolonged business interruptions; e.
- f. Minimize damage to public facilities and utilities located in areas of special flood hazard.

POLICY:

It is the Council's policy to regulate development within Special Flood Hazard Areas in accordance with the requirements of the Land Development Code. It is also the Council's policy to consider all applicable criteria as stated herein, in addition to the requirements of the Land Development Code, when approving deviations from the floodplain regulations. This policy shall apply to all areas of special flood hazard within the City of San Diego.

DEVIATION CRITERIA:

Where a deviation from the Environmentally Sensitive Lands Regulations of the Land Development Code (Sections 143.0145 and 143.0146) is requested, the decision maker shall consider all relevant factors, all technical evaluations, and all standards provided by the City Engineer in addition to the following conditions:

CITY OF SAN DIEGO, CALIFORNIA

COUNCIL POLICY

CURRENT

- a. A deviation shall not be approved within any designated floodway if any increase in flood levels during the base flood discharge would result. (See Diagram 1, Floodplain Schematic in Appendix A of Council Policy 600-14).
- b. A deviation may be approved only upon:
 - 1. a showing of good and sufficient cause;
 - 2. a determination that the proposed deviation is the minimum necessary to afford relief from special circumstances or condition of land, not of the applicant's making;
 - 3. a determination that failure to grant the deviation would result in exceptional hardship to the applicant; and
 - 4. a determination that the granting of a deviation will not result in increased flood heights, additional threats to public safety, extraordinary public expense, create nuisances, cause fraud on or victimization of the public, or conflict with existing local laws or ordinances.
- c. A deviation may be issued for new construction and substantial improvements and for other development necessary for the conduct of a functionally dependent use provided that the structure or other development is protected by methods that minimize flood damages during the base flood and create no additional threats to public safety.
- d. Any applicant to whom a deviation is granted shall be given written notice that the structure will be permitted to be built with a lowest floor elevation below the regulatory flood elevation and that the cost of flood insurance will be commensurate with the increased risk resulting from the reduced lowest floor elevation.
- e. In approving a deviation request the decision maker shall also consider the following factors:
 - 1. the danger that materials may be swept onto other lands to the injury of others;
 - 2. the danger of life and property due to flooding or erosion damage;
 - 3. the susceptibility of the proposed facility and its contents to flood damage and the effect of such damage on the individual owner;
 - 4. the importance of the services provided by the proposed facility to the community;
 - 5. the necessity to the facility of a waterfront location, where applicable;
 - 6. the availability of alternative locations for the proposed use which are not subject to flooding or erosion damage;
 - 7. the compatibility of the proposed use with existing and anticipated development;

CITY OF SAN DIEGO, CALIFORNIA

COUNCIL POLICY

CURRENT

- 8. the relationship of the proposed use to the comprehensive plan and floodplain management program for the area;
- 9. the safety of access to the property in time of flood for ordinary and emergency vehicles;
- 10. the expected heights, velocity, duration, rate of rise, and sediment transport of the flood waters expected at the site; and,
- 11. the costs of providing governmental services during and after flood conditions, including maintenance and repair of public utilities and facilities such as sewer, gas, electrical, and water systems, and streets and bridges.

HISTORY:

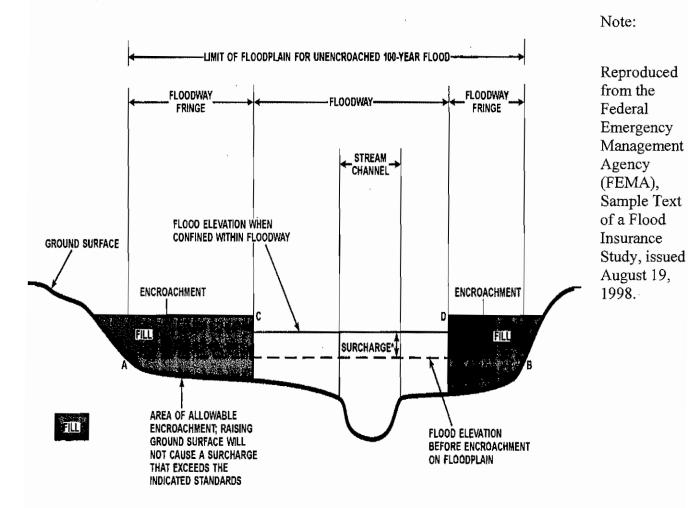
Adopted by Resolution R-203632	09/02/1971
Amended by Resolution R-212811	03/13/1975
Reaffirmed by Council	
Resolution R-214421	10/08/1975
Amended by Resolution R-272880	02/14/1989
Amended by Resolution R-289515	12/02/1997
Amended by Resolution R-294394	12/12/2000

COUNCIL POLICY

CURRENT

COUNCIL POLICY 600-14 APPENDIX A

Diagram 1 Floodplain Schematic



LINE A - B IS THE FLOOD ELEVATION BEFORE ENCROACHMENT LINE C - D IS THE FLOOD ELEVATION AFTER ENCROACHMENT

*SURCHARGE NOT TO EXCEED 1.0 FOOT (FEDERAL EMERGENCY MANAGEMENT AGENCY REQUIREMENT) OR LESSER HEIGHT IF SPECIFIED BY STATE

§143.0145 Development Regulations for Special Flood Hazard Areas

- (a) Special Flood Hazard Areas within the City of San Diego are established in accordance with the report entitled "Flood Insurance Study, San Diego County, California," dated June 16, 1999 and the accompanying Flood Insurance Rate Maps (FIRM), published by the Federal Emergency Management Agency (FEMA), on file in the office of the City Clerk as Document Nos. 18910-1 and 18910-2, including any supplements, amendments, and revisions which are properly promulgated by FEMA or the Federal Insurance Administrator.
- (b) For the purpose of Sections 143.0145 and 143.0146, the City Engineer is the designated Floodplain Administrator and shall administer, implement, and enforce these regulations.
- (c) The degree of *flood* protection required by this section is considered reasonable for regulatory purposes and is based on scientific and engineering considerations. Larger *floods* can and will occur on rare occasions. It is possible that increased *flood* heights may result from man-made or natural causes. This section does not imply that land outside a *Special Flood Hazard Area* or uses permitted within such areas will be free from *flooding* or *flood* damages. This section shall not create liability on the part of the City, any officer or employee thereof, or the FEMA, for any *flood* damages that result from reliance on this chapter or any administrative decision lawfully made there under.
- (d) The following development regulations and all other applicable requirements and regulations of FEMA apply to all *development* proposing to encroach into a *Special Flood Hazard Area*, including both the *floodway* and *flood fringe* areas or that does not qualify for an exemption pursuant to Section 143.0110(c):
- (e) Floodways
 - (1) Within the *floodway* portion of a *premises*, development regulations are as set forth for the OF zone, pursuant to Section 131.0231.
 - (2) Structures associated with any allowed use shall comply with the following requirements:
 - (A) Structures shall not be attached to a foundation, in order to readily move them in case of *flood*; and
 - (B) Structures shall be removed upon imminence of flooding, as predicted by the National Weather Service or local public weather broadcast. If a structure is not removed and flooding occurs, the retrieval or salvage of the structure and repair of any damage caused by the structure shall be the responsibility of the owner.

- Channelization or other substantial alteration of rivers or streams shall (3) be limited to that necessary for the following:
 - Essential public service projects, where no other feasible (A) construction method or alternative project location exists; and
 - (B) Flood control projects, where no other feasible method for protecting existing public or private development exists and where such protection is necessary for public safety.
 - (C) Projects where the primary function is the improvement of fish and wildlife habitat.
- (4) Development in floodways shall be offset by improvements or modifications to enable the passage of a base flood, in accordance with the FEMA standards and regulations provided in Section 143.0146.
- (5) Development that involves channelization or other substantial alteration of rivers or streams is subject to the following requirements.
 - (A) All requirements and relevant recommendations of hydrological studies for the watershed of the affected stream. as approved by the City Engineer, shall be incorporated into the project design and mitigation measures. These requirements include erosional characteristics, flow velocities, volume, sediment transport, and maintenance of hydrology.
 - (B) The channel shall be designed to ensure that the following occur:
 - (i) Stream scour is minimized;
 - (ii) Erosion protection is provided;
 - (iii) Water flow velocities are maintained as specified by the City Engineer;
 - (iv) There are neither significant increases nor contributions to downstream bank erosion and sedimentation of sensitive biological resources; acceptable techniques to control stream sediment include planting riparian vegetation in and near the stream and detention or retention basins:
 - (v) Wildlife habitat and corridors are maintained;
 - (vi) Resource management criteria are implemented consistent with applicable land use plans; and
 - Groundwater recharge capability is maintained or (vii) improved.

(4-2008)

- (C) Channels that accommodate a base flood shall do so without increasing the water surface elevation more than one foot at any point from the level of a nonconfined base flood in the natural undeveloped floodplain. Channels may accommodate less than a base flood (low-flow channels), but shall be designed and constructed in accordance with FEMA regulations.
- (D) All artificial channels shall consist of natural bottoms and sides and shall be designed and sized to accommodate existing and proposed riparian vegetation and other natural or proposed constraints. Where maintenance is proposed or required to keep vegetation at existing levels compatible with the design capacity of the channel, a responsible party shall be identified and a maintenance and monitoring process shall be established to the satisfaction of the City Engineer.
- (6) Development shall not significantly adversely affect existing sensitive biological resources on-site or off-site.
- (7) Within the Coastal Overlay Zone, no *structure* or portion thereof shall be erected, constructed, converted, established, altered or enlarged, or no landform alteration *grading*, placement or removal of vegetation, except that related to a historic and ongoing agricultural operation, or land division shall be permitted, provided:
 - (A) Parking lots, new roadways and roadway expansions shall be allowed only where indicated on an adopted *Local Coastal Program land use plan*.
 - (B) Floodway encroachments for utility and transportation crossings shall be offset by improvements or modifications to enable the passage of the base flood, in accordance with the FEMA standards and regulations provided in Section 143.0146.
- (f) Flood Fringe. The applicable development regulations are those in the underlying zone, subject to the following supplemental regulations:
 - (1) Within the *flood fringe* of a *Special Flood Hazard Area*, permanent *structures* and *fill* for permanent *structures*, roads, and other *development* are allowed only if the following conditions are met:
 - (A) The *development* or *fill* will not significantly adversely affect existing *sensitive biological resources* on-site or off-site;

(4-2008)

- (B) The *development* is capable of withstanding *flooding* and does not require or cause the construction of off-site *flood* protective works including artificial *flood* channels, revetments, and levees nor will it cause adverse impacts related to *flooding* of properties located upstream or downstream, nor will it increase or expand a *(FIRM)* Zone A;
- (C) Grading and filling are limited to the minimum amount necessary to accommodate the proposed development, harm to the environmental values of the floodplain is minimized including peak flow storage capacity, and wetlands hydrology is maintained;
- (D) The development neither significantly increases nor contributes to downstream bank erosion and sedimentation nor causes an increase in flood flow velocities or volume; and
- (E) There will be no significant adverse water quality impacts to downstream wetlands, lagoons or other sensitive biological resources, and the development is in compliance with the requirements and regulations of the National Pollution Discharge Elimination System, as implemented by the City of San Diego.
- (F) The design of the development incorporates the findings and recommendations of both a site specific and coastal watershed hydrologic study.
- (2) All development that involves fill, channelization, or other alteration of a Special Flood Hazard Area is subject to the requirements for channelization in Section 143.0145(a)(5) and with FEMA regulations. (Amended 4-22-2002 by O-19051 N.S.; effective 10-8-2002.)

§143.0146 Supplemental Regulations for Special Flood Hazard Areas

All proposed *development* within a *Special Flood Hazard Area* is subject to the following requirements and all other applicable requirements and regulations of FEMA.

- (a) Development and Permit Review
 - (1) Where base flood elevation data has not been provided by the Flood Insurance Study, the City Engineer shall obtain, review, and utilize base flood elevation and floodway data available from federal or state sources, or require submittal of such data from the applicant. The City Engineer shall make interpretations, where needed, as to the location of the boundaries of the areas of the Special Flood Hazard Area, based on the best available engineering or scientific information.
 - (2) Proposed development in a Special Flood Hazard Area shall not adversely affect the flood carrying capacity of areas where base flood elevations have been determined but the floodway has not been designated. "Adversely affect" as used in this section means that the cumulative effect of the proposed development, when combined with all other existing and anticipated development, will not increase the water surface elevation of the base flood more than one foot at any point.
 - (3) In all cases where a watercourse is to be altered the City Engineer shall do the following:
 - (A) Notify affected, adjacent communities and the California Department of Water Resources of any proposed alteration or relocation of a watercourse and submit evidence of the notice to the Federal Insurance Administration;
 - (B) Require that the *flood* carrying capacity of the altered or relocated portion of the watercourse is maintained; and
 - (C) Secure and maintain for public inspection and availability the *certifications*, appeals, and variances required by these regulations.
 - (4) The *applicant* shall grant a flowage easement to the City for that portion of the property within a *floodway*.

- (5) Appropriate agreements shall be secured between the *applicant* and the City to assure participation by the *applicant* or any successor in interest in financing of future *flood* control works.
- (6) Development in a Special Flood Hazard Area shall not increase or expand a FIRM Zone A.
- (7) In all *floodways*, any *encroachment*, including *fill*, new construction, significant modifications, and other *development* is prohibited unless *certification* by a registered professional engineer is provided demonstrating that *encroachments* will not result in any increase in *flood* levels during the occurrence of the *base flood* discharge.

(b) Standards for Subdivisions

- (1) All preliminary *subdivision* proposals shall identify the *Special Flood Hazard Area* and the elevation of the *base flood*.
- (2) All final subdivision maps shall provide the elevation of proposed structures and pads. If the site is filled above the base flood elevation, the lowest floor, including basement, shall be certified to be 2 feet above the base flood elevation by a registered professional engineer or surveyor, and the certification shall be provided to the City Engineer.
- (3) All *subdivisions* shall be designed to minimize *flood* damage.
- (4) All *subdivisions* shall have public utilities and facilities such as sewer, gas, electrical, and water systems located and constructed to minimize *flood* damage.
- (5) All *subdivisions* shall provide adequate drainage to reduce exposure to *flood* hazards.
- (6) The final map shall bear the notation "Subject to Inundation" for those portions of the property with a *grade* lower than 2 feet above the *base flood elevation*.

(c) Standards of Construction

In all Special Flood Hazard Areas, the following standards apply for all development.

- (1) All permitted, permanent *structures* and other significant improvements shall be anchored to prevent flotation, collapse, or lateral movement resulting from hydrodynamic and hydrostatic loads, including the effects of buoyancy.
- (2) All permitted permanent *structures* and other significant improvements shall be constructed with materials and utility equipment resistant to *flood* damage.
- (3) Construction methods and practices that minimize *flood* damage shall be used.
- (4) All electrical, heating, ventilation, plumbing, and air conditioning equipment and other service facilities shall be designed and located to prevent water from entering or accumulating within the equipment components during conditions of *flooding*.
- (5) Breakaway walls shall be certified by a registered engineer or architect to meet all applicable FEMA requirements. The certification shall be provided to the City Engineer before final inspection approval.
- (6) New construction or substantial improvement of any structure shall have the lowest floor, including basement, elevated at least 2 feet above the base flood elevation. Upon completion of the development, the elevation of the lowest floor, including basement, shall be certified by a registered professional engineer or surveyor to be properly elevated. The certification shall be provided to the City Engineer before final inspection approval. The City Engineer reserves the right to require a preliminary certification before foundation inspection approval.
- (7) New construction or substantial improvement of any structure in FIRM Zone AH or AO shall have the lowest floor, including basement, elevated above the highest adjacent grade at least 2 feet higher than the depth number specified on the FIRM, or at least 4 feet if no depth number is specified. Upon the completion of the structure the elevation of the lowest floor, including basement, shall be certified by a registered professional engineer or surveyor, to be properly elevated. The certification shall be provided to the City Engineer before final inspection approval. The City Engineer may require a preliminary certification before foundation inspection approval.

- (8) Permitted nonresidential construction shall either be elevated as required by Section 143.0146(c)(6) or (7) or, together with attendant utility and sanitary facilities, meet the flood proofing requirements of FEMA. Certification by a registered professional engineer or architect that such requirements are met shall be provided to the City Engineer before final inspection approval. The City Engineer may require a preliminary certification before foundation inspection approval.
- (9) Fully enclosed areas below the *lowest floor* that are subject to flooding shall be certified by a registered professional engineer or architect that they comply with the flood proofing requirements of FEMA. The certification shall be provided to the City Engineer before final inspection approval.
- Standards for Manufactured Homes (d)

All new and replacement manufactured homes and additions to manufactured homes are subject to the following regulations.

- (1) The *lowest floor* shall be elevated at least 2 feet above the *base* flood elevation.
- (2) Manufactured homes shall be securely anchored to a permanent foundation system to resist flotation, collapse, or lateral movement.
- (3) A registered engineer or architect must certify that the conditions of this subsection have been met. The certification shall be provided to the City Engineer before final inspection approval.
- (e) Standards for Utilities

Certification shall be provided to the City Engineer before final inspection approval that the following requirements have been met.

- (1) All new and replacement water supply and sanitary sewage systems shall be designed to minimize or eliminate infiltration of flood waters into the system and discharge from systems into flood waters.
- (2) On-site waste disposal systems shall be located and designed to avoid impairment to them or contamination from them during flooding.

(f) The City Engineer shall notify the San Diego District Offices of the Coastal Commission of any pending changes to the adopted Flood Insurance Rate Maps affecting property within the Coastal Overlay Zone when the City Engineer receives notification of such potential changes. The City Engineer shall notify the Commission staff when costal development within the City of San Diego's Coastal

Development Permit jurisdiction would require processing a change to the FIRM maps. The City Engineer shall assure the Commission's District Office has the most current effective Flood Insurance Rate Maps approved by FEMA by forwarding any revised maps affecting the Coastal Overlay Zone within thirty working days of City Engineer's receipt.

(Amended 4-22-2002 by O-19051 N.S.; effective 10-8-2002.)

§143.0150 Deviations from Environmentally Sensitive Lands Regulations

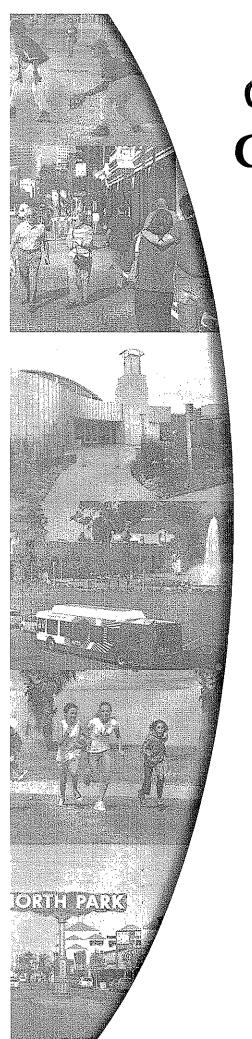
Plans submitted in accordance with this section shall, to the maximum extent feasible, comply with the regulations of this division. If a proposed *development* does not comply with all applicable development regulations of this division and a deviation is requested as indicated in Table 143-01A, the Planning Commission may approve, conditionally approve, or deny the proposed Site Development Permit in accordance with Process Four, subject to the following:

- (a) Deviations from the regulations of this division may be granted only if the decision maker makes the *findings* in Section 126.0504(c).
- (b) Deviations from the Supplemental Regulations for Special Flood Hazard Areas in Section 143.0146 may be granted only if the decision maker makes the *findings* in Section 126.0504(d).
- (c) Within the Coastal Overlay Zone, deviations from the Environmentally Sensitive Lands Regulations may be granted only if the decision maker makes the *findings* in Section 126.0708.

(Amended 4-22-2002 by O-19051 N.S.; effective 10-8-2002.)

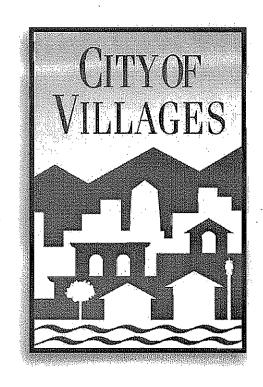
ATTACHMENT E

Excerpts from City of San Diego General Plan





City of San Diego General Plan



Adopted by the: Council of the City of San Diego March 10, 2008

Resolution Number: R-303473



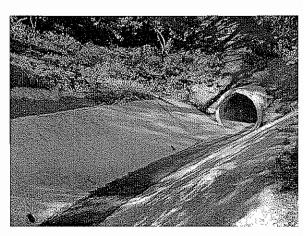
G. Storm Water Infrastructure

Goals

- Protection of beneficial water resources through pollution prevention and interception efforts.
- A storm water conveyance system that effectively reduces pollutants in urban runoff and storm water to the maximum extent practicable.

Discussion

The City's storm water pollution prevention efforts and conveyance system strive to protect the quality of our recreational waters and potable water resources as mandated by the federal Clean Water Act of 1972 and the San Diego Regional Water Quality Control Board. The City also maintains compliance with the Water Quality Control Plan for the San Diego Region 9 also referred to as the Basin Plan, and with storm water permits. These functions require a multi-faceted approach that couples infrastructure improvements and maintenance, water quality monitoring, source identification of pollutants, land use planning policies and regulations, and



City of San Diego storm drain

pollution prevention activities such as education, code enforcement, outreach, public advocacy, and training. Additional discussion on Urban Runoff Management, Section E, is included in the Conservation Element.

The City has more than 39,000 storm drain structures and over 900 miles of storm drain pipes and channels serving approximately 237 square miles of urbanized development. Many storm water infrastructure projects do not have the opportunity to affect site design or implement other means to keep pollutants from entering storm drain flows. Therefore, prevention through education, outreach, code enforcement, and other efforts continues to be the most effective method of protecting water resources. Secondly, capital improvement investments in storm water structures (curbs, gutters, inlets, catch basins, pipes, and others) determined through Best Management Practices (BMP) are critical in order to reduce pollutant loading to acceptable levels. Public projects should be evaluated for their impact on the storm drain conveyance system and incorporate storm water quality and conveyance structures during the design process. Similarly, private development will mitigate the impacts of its development on the storm water conveyance system while overall system monitoring including the identification of needs is also performed by the City.

Public Facilities, Services and Safety Element



In addition to capital investments in storm water structures, operations and maintenance are equally critical to ensure governmental compliance and clean water resources. Furthermore, state regulations require that the City keep track of storm water structure locations and maintenance via inspections, and in some cases, collection and/or reporting of storm water quality monitoring data. The storm drain fee and other sources of funds are instrumental in ensuring compliance with legal mandates and maintaining storm water prevention and conveyance functions.

Policies

- PF-G.1. Ensure that all storm water conveyance systems, structures, and maintenance practices are consistent with federal Clean Water Act and California Regional Water Quality Control Board NPDES Permit standards.
- PF-G.2. Install infrastructure that includes components to capture, minimize, and/or prevent pollutants in urban runoff from reaching receiving waters and potable water supplies.
- PF-G.3. Meet and preferably exceed regulatory mandates to protect water quality in a cost-effective manner monitored through performance measures.
- PF-G.4. Develop and employ a strategic plan for the City's watersheds to foster a comprehensive approach to storm water infrastructure improvements.
- PF-G.5. Identify and implement BMPs for projects that repair, replace, extend or otherwise affect the storm water conveyance system. These projects should also include design considerations for maintenance, inspection, and, as applicable, water quality monitoring.
- PF-G.6. Identify partnerships and collaborative efforts to sponsor and coordinate pollution prevention BMPs that benefit storm water infrastructure maintenance and improvements.

Conservation Element



Open space that is designated in community plans and other land use plans is an important component of the open space system because of its value in protecting natural landforms, defining community boundaries, providing natural linkages between communities, providing visually appealing open spaces, and protecting habitat and biological systems of community importance that are not otherwise included in the MHPA.

Policies

- CE-B.1. Protect and conserve the landforms, canyon lands, and open spaces that: define the City's urban form, provide public views/vistas, serve as core biological areas and wildlife linkages, are wetlands habitats, provide buffers within and between communities, or provide outdoor recreational opportunities.
 - a. Utilize Environmental Growth Funds and pursue additional funding for the acquisition and management of MHPA and other important community open space lands.
 - b. Support the preservation of rural lands and open spaces throughout the region.
 - c. Protect urban canyons and other important community open spaces including those that have been designated in community plans for the many benefits they offer locally, and regionally as part of a collective citywide open space system (see also Recreation Element, Sections C and F; Urban Design Element, Section A).
 - d. Minimize or avoid impacts to canyons and other environmentally sensitive lands, by relocating sewer infrastructure out of these areas where possible, minimizing construction of new sewer access roads into these areas, and redirecting of sewage discharge away from canyons and other environmentally sensitive lands.
 - e. Encourage the removal of invasive plant species and the planting of native plants near open space preserves.
 - f. Pursue formal dedication of existing and future open space areas throughout the City, especially in core biological resource areas of the City's adopted MSCP Subarea Plan.
 - g. Require sensitive design, construction, relocation, and maintenance of trails to optimize public access and resource conservation.
- CE-B.2. Apply the appropriate zoning and Environmentally Sensitive Lands (ESL) regulations to limit development of floodplains, sensitive biological areas including wetlands, steep hillsides, canyons, and coastal lands.
 - a. Manage watersheds and regulate floodplains to reduce disruption of natural systems, including the flow of sand to the beaches. Where possible and practical, restore water filtration, flood and erosion control, biodiversity and sand replenishment benefits.
 - b. Limit grading and alterations of steep hillsides, cliffs and shoreline to prevent increased erosion and landform impacts.

Conservation Element



- CE-B.3. Use natural landforms and features as integrating elements in project design to complement and accentuate the City's form (see also Urban Design Element, Section A).
- CE-B.4. Limit and control runoff, sedimentation, and erosion both during and after construction activity.
- CE-B.5. Maximize the incorporation of trails and greenways linking local and regional open space and recreation areas into the planning and development review processes.
- CE-B.6. Provide an appropriate defensible space between open space and urban areas through the management of brush, the use of transitional landscaping, and the design of structures (see also Urban Design Element, Policy UD-A.3.0). Continue to implement a citywide brush management system.



The following policies address land development practices for erosion control, decreased use of impervious surfaces, and design that captures or reduces runoff from development sites. The policies also provide a summary of the City's overall water quality protection policies.

Policies

- CE-E.1. Continue to develop and implement public education programs.
 - a. Involve the public in addressing runoff problems associated with development and raising awareness of how an individual's activities contribute to runoff pollution.
 - b. Work with local businesses and developers to provide information and incentives for the implementation of Best Management Practices for pollution prevention and control.
 - c. Implement watershed awareness and water quality educational programs for City staff, community planning groups, the general public, and other appropriate groups.
- CE-E.2. Apply water quality protection measures to land development projects early in the process-during project design, permitting, construction, and operations-in order to minimize the quantity of runoff generated on-site, the disruption of natural water flows and the contamination of storm water runoff.
 - a. Increase on-site infiltration, and preserve, restore or incorporate natural drainage systems into site design.
 - b. Direct concentrated drainage flows away from the MHPA and open space areas. If not possible, drainage should be directed into sedimentation basins, grassy swales or mechanical trapping devices prior to draining into the MHPA or open space areas.
 - c. Reduce the amount of impervious surfaces through selection of materials, site planning, and street design where possible.
 - d. Increase the use of vegetation in drainage design.
 - e. Maintain landscape design standards that minimize the use of pesticides and herbicides.
 - f. Avoid development of areas particularly susceptible to erosion and sediment loss (e.g., steep slopes) and, where impacts are unavoidable, enforce regulations that minimize their impacts.
 - g. Apply land use, site development, and zoning regulations that limit impacts on, and protect the natural integrity of topography, drainage systems, and water bodies.
 - h. Enforce maintenance requirements in development permit conditions.



- CE-E.3. Require contractors to comply with accepted storm water pollution prevention planning practices for all projects.
 - a. Minimize the amount of graded land surface exposed to erosion and enforce erosion control ordinances.
 - b. Continue routine inspection practices to check for proper erosion control methods and housekeeping practices during construction.
- CE-E.4. Continue to participate in the development and implementation of Watershed Management Plans for water quality and habitat protection.
- CE-E.5. Assure that City departments continue to use "Best Practice" procedures so that water quality objectives are routinely implemented.
 - a. Incorporate water quality objectives into existing regular safety inspections.
 - b. Follow Best Management Practices and hold training sessions to ensure that employees are familiar with those practices.
 - c. Educate City employees on sources and impacts of pollutants on urban runoff and actions that can be taken to reduce these sources.
 - d. Ensure that contractors used by the City are aware of and implement urban runoff control programs.
 - e. Serve as an example to the community-at-large.
- CE-E.6. Continue to encourage "Pollution Control" measures to promote the proper collection and disposal of pollutants at the source, rather than allowing them to enter the storm drain system.
 - a. Promote the provision of used oil recycling and/or hazardous waste recycling facilities and drop-off locations.
 - b. Review plans for new development and redevelopment for connections to the storm drain system.
 - c. Follow up on complaints of illegal discharges and accidental spills to storm drains, waterways, and canyons.
- CE-E.7. Manage floodplains to address their multi-purpose use, including natural drainage, habitat preservation, and open space and passive recreation, while also protecting public health and safety.